

## Claims

1. Method for providing services in a mobile communication system, wherein a number of n calls, with  $n = 1, 2, 3, \dots$  of m different bearer capabilities, with  $m = 1, 2, 3, \dots$ , are handled, with the following steps:

- requesting a set-up of a further call  $n+1$  while the number n of calls with m different bearer capabilities is already set up,
- deciding either to set up a parallel call or to set up a further call  $n+1$  by choosing one call to be put on hold and by using a bearer with bearer capabilities.

10

2. Method for providing services according to claim 1, with the further steps of

- comparing the bearer capabilities of the  $n + 1$  calls,
- determining whether any of the number of n calls has the same bearer capability m as the further call  $n+1$ , and
- choosing one of the n calls with the same bearer capability as the further call, to be put on hold, put the chosen call on hold and sending of an acknowledgement and setting up the further call.

3. Method for providing services according to claim 2, with the further steps

- determining whether any of the number n of calls has a bearer capability sufficient to be used for the further call and choosing one of the calls to be put on hold.

4. Method for providing services according to claim 1,2 or 3, with the further steps

- deciding that the further call  $n+1$  is rejected.

25

5. Method for providing services according to claim 1,2, 3 or 4, wherein

- the decision either to set up a parallel call or to choose a call to be put on hold or to reject a call, is influenced by settings of a user.

6. Method for providing services according to claim 1,2, 3 or 4, wherein
- the decision either to set up a parallel call or to choose a call to be put on hold or to reject a call, is depending on settings of parameters.
- 5
7. Method for providing services according to claim 1,2,3 or 4, wherein
- the choosing of a call to be put on hold is influenced by settings of a user.
- 10
8. Method for providing services according to claim 1, 2 or 3; with the further steps
- deciding that the further call is put on a call waiting stage.
9. Method for providing services according to claim 5 or 7, wherein
- the user settings are set once.
- 15
10. Method for providing services according to claim 5 or 7, wherein
- the user settings are set before a first attachment to the communication system.
11. Method for providing services according to claim 5 or 7, wherein
- the user settings are set before a call set up.
- 20
12. Method for providing services according to any of the claims 1 to 11,
- wherein a conference call with a number of users is set up.
13. Method for providing services according to any of the claims 1 to 12,
- 25
- wherein a call is forwarded to another user.
14. Method for providing services according to claim 1 to 13,
- wherein the services are supplementary services inherited from a GSM system by a user in an UMTS system.
- 30

~~15.~~ Logical unit in a core network of a mobile communication system wherein a number of n calls, with  $n = 1, 2, 3, \dots$  of m different bearer capabilities, with  $m = 1, 2, 3, \dots$ , are handled characterised, by

- 5 means for comparing a bearer capability requested for a set up of a further call  $n+1$  with the bearer capabilities m of the n calls already set up,  
means for deciding whether a call should be offered as a new parallel call or as a waiting call and for performing the decision, and  
storage means for storing information about the active calls.

~~16.~~ Logical unit in a mobile user equipment of a mobile communication system wherein a number of n calls, with  $n = 1, 2, 3, \dots$  of m different bearer capabilities, with  $m = 1, 2, 3, \dots$ , are handled characterised, by

10 means for comparing a bearer capability requested for a set up of a further call  $n+1$  with the bearer capabilities m of the n calls already set up,  
means for deciding whether a call should be set up as a new parallel call or which of the n calls should be put on hold before setting up or accepting the further call  $n+1$ ,  
means for performing the decision, and  
20 storage means storing information about the active calls.

17. Logical unit according to claim 15 or 16, wherein information about an active call are call identification, bearer identification and bearer capability.

25 18. Logical unit according to any of the claims 15 to 17, wherein the means for deciding are influenced by settings of a user.

19. Logical unit according to any of the claims 15 to 17, with means for indicating a mobile user that a decision has to be taken.

30

20. Logical unit according to claim 18, wherein  
the user settings are set once.
  21. Logical unit according to claim 18, wherein  
the user settings are set before a first attachment to the communication system.
  22. Logical unit according to claim 18, wherein  
the user settings are set before a call set up.

卷之三